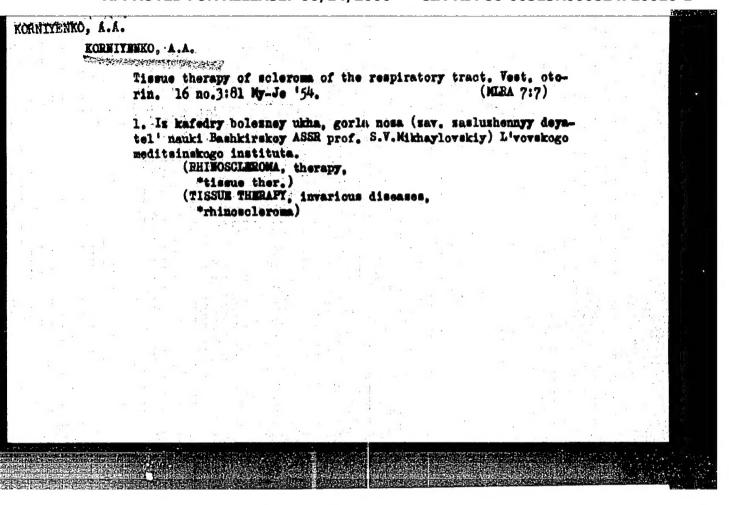
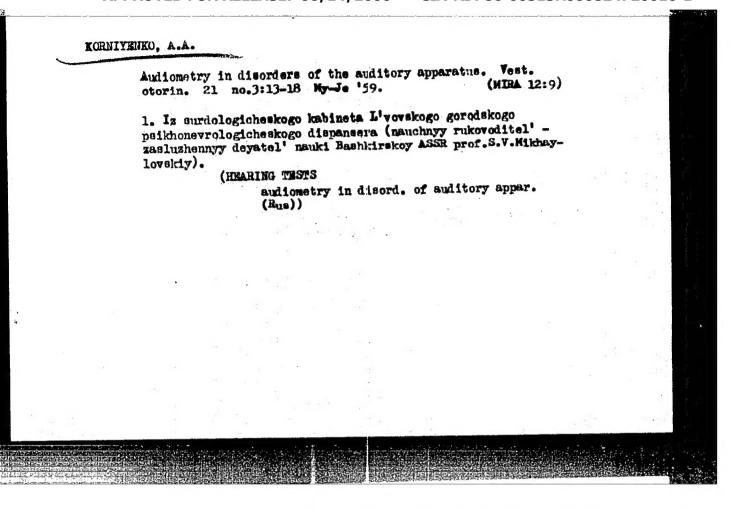
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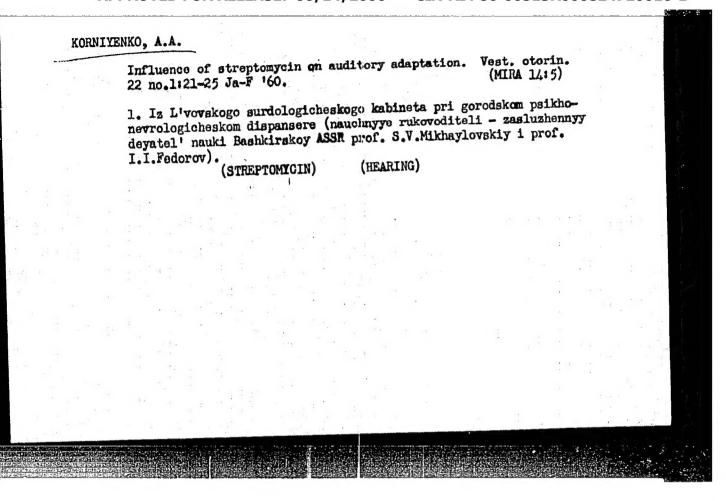
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MUSICH, M.I., kandidat sel'skokhosyaystvennykh nauk; KORNIYENKO, A.D.

Characteristics of the agricultural system in Yakutia, Zemledelie 5 no.4:3-7 Ap '57. (MEM 10:6)

1. Institut biologii Yakutekogo filiala Akademii nauk SSER (for Musich). 2. Takutekiy nauchno-iseledovatel'skiy institut sel'skogo khosyaystva (for Korniyenko).

(Yakutia—Agriculture)

CIA-RDP86-00513R000824720016-1 "APPROVED FOR RELEASE: 06/14/2000

KORNYENKO, A.G.

AID P - 5504

Sub.ject

: USSR/Aeronautics - maintenance

Card 1/1

Pub. 135 - 21/26

Authors

: Sutugin, G. S., Eng.-Col., cand. of tech. sci., and Korniyenko, A. G., Eng.-Lt. Col.

Title

To standardize aircraft connectors and assembly

junctions.

Periodical

Vest. vozd. flota, 3, 76-77, Mr 1957

Abstract

The authors suggest that in the interest of a more rational servicing of various types of aircraft on the airdromes, the standardization of various aircraft connectors of hydraulic and electric systems, of nipple joints for filling the pressurized cabins with air, etc.,

should be carried out.

Institution:

None

Submitted

No date

FIOSHIN, M.Ya.; MIRKIND, L.A.; SALMIN', L.A.; KORNIYENKO, A.G.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824720016 Electrochemical carboxylation of unsaturated compounds. Zhur. (MIRA 18:6) VKHO 10 no. 2:238 165.

Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

FIOSHIN, M.Ya.; SAIMIN', L.A.; MIRKIND, L.A.; KORNIYENKO, A.G.

Electrochemical synthesis of unsaturated dicarboxylic acids.

Zhur. VKHO 10 no.5:594-595 165. (MIRA 18:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni

Mendeleyeva.

William Willia

s/204/62/002/004/011/019 E075/E436

AUTHORS:

Fioshin, M.Ya., Kamneva, A.I., Mirkind, L.A.,

Salmin', L.A., Korniyenko, A.G.

TITLE:

Synthesis of higher unsaturated dicarboxylic acids by the electrolysis of monoesters of lower acids in the

presence of 1,3-butadiene

PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 557-565

Investigation was made of the synthesis of unsaturated TEXT: dicarboxylic acids by the electrolysis of potassium monomethyladipate in the presence of 1,3-butadiene. was used as a solvent and the electrolysis carried out at -10 to It was shown that at low current densities (1 to 1.5 A/dm2) -15°C. and high concentration of 1,3-butadiene (more than 4 times the molar quantity of monomethyladipate) the reaction is directed . almost completely towards the formation of diesters of the The relative content of C18 acid increases unsaturated acids. with the concentration of butadiene. The relationship between the relative contents of C14 and C18 acids in the neutral products is given by

Card 1/2

Synthesis of higher ...

S/204/62/002/004/011/019 E075/E436

where a = 0.282, b = 0.063 and C_D is the concentration of butadiene. The total yield of acids is expressed approximately by $A = a \exp(-bD_D)$ (1)

where a = 100, b = 0.074 and D₀ is the current density in A/dm². The esters obtained were those of 6-dodecene-1, 12-dicarboxylic acid and 6,10-hexadecadiene-1, 16-dicarboxylic acids. Saponification of the esters with aqueous alkali gave the unsaturated dicarboxylic acids. The maximum yield of the C₁₈ acid was 49.1% under the optimum conditions, i.e. current density - 0.5 A/dm², butadiene concentration - 9 mole/litre, the ratio of current passed to that required by theory - 0.25. The maximum yield of the C₁₄ acid was 67.5%. The results indicate that the reaction constitutes a practical method for the synthesis of higher dicarboxylic acids. There are 7 figures and 3 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D.I.Mendeleyeva (Moscow Institute of Chemical Technology imeni D.I.Mendeleyev)

Card 2/2

FIOSHIN, M. Ya.; KAMNEVA, A. I.; MIRKIND, L. A.; SAIMIN', L. A.; KORNIYENKO, A. G.

Synthesis of higher unsaturated dicarboxylic acids by the electrolysis of lower acid monoesters in the presence of 1,2-butadiene. Neftekhimia 2 no.4:557-565 Jl-Ag '62. (MIRA 15:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva.

(Acids, Organic) (Esters) (Butadiene)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720016-1

L 10889-67 TOH ACC NRI AP6009322

SOURCE CODE: UR/0256/65/000/009/0065/0070

AUTHOR: Korniyenko, A. I. (Engineer, Lieutenant Colonel, Candidate of Technical Sciences

ORG: None

TITLE: Bionics in military affairs

SOURCE: Vestnik protivovozdushnoy oborony, no. 9, 1965, 65-70

TOPIC TAGS: bionics, cybernetics, military R and D, physics research, scientific research

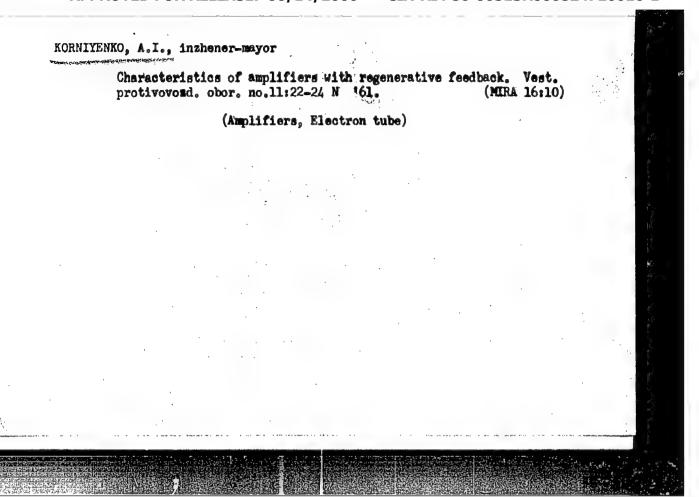
ABSTRACT: The discussion of the military application of such new sciences as bionics and cybernetics is based on articles the author read in the foreign press, primarily U.S. and British. These new sciences have been developed to the point where a whole series of cybernetic machines have been built and there is now a much better understanding of biological processes. Bionics is closely connected with such technical sciences as radio electronics, aerial navigation and shipbuilding. The U.S. Navy is doing a great deal of research in radar and sonar and is also closely examining such things as the ability of fish to detect cdors, the ability of snakes to detect heat, the ability of frogs to see only what is necessary, the ability of bats to fly in the dark, the dolphin's ability to communicate with another dolphin and the homing instinct of pigeons or turtles. The brain is another complex organism under-

Card 1/2

ACC NRI APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R0008247/20016

going close scrutiny. If the ability of the brain to recognize objects could be duplicated by a machine a missile could be aimed accurately, a apy-satellite could detect the launching of an ICBM, or an aerial rhoto could be read out. The article describes a transistorized machine which can duplicate a neuron, thus permitting the construction of various models, such as a frog's eye or a human ear, which will react to various stimuli. Thus, the sciences of bionics and cybernetics are of great value to the military and can be used for everything from target detection to development of a device that will enable a satellite to repair itself while in orbit. Orig. art. has: 4 figures.

SUB CODE: 15, 06/SUBM DATE: None



KORNIYENKO, A. M.

Steam Turbines

Preventing ignition of oil in turbines model SR-26; Rab. energ. 2 no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED

- 1. KORNIYENKO, A.M., ENG.
- 2. USSR (600)
- 4. Steam Turbines
- 7. Wearing-out turbine reductor teeth. Rab.energ. 2 no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

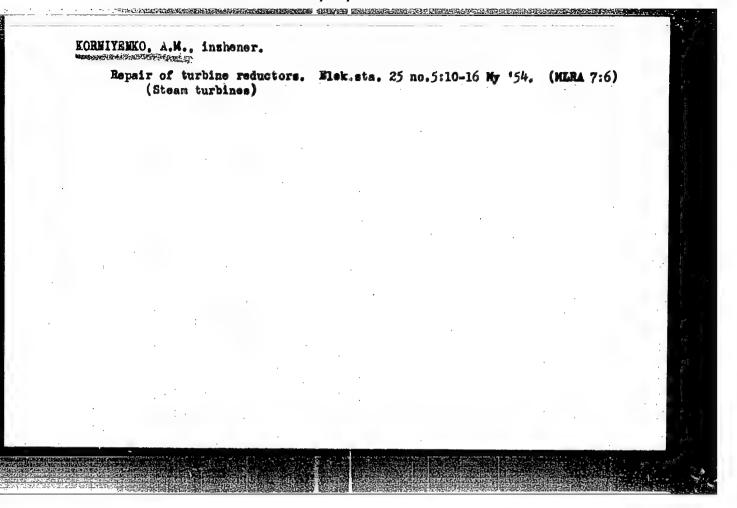
	KCRHIYANKÇ, A. H.	04
	Vibration, Steam Turbines	
	Preventing excessive turbine vibration. Elek. sta. 23 no. 3, 1952	
	Inzh.	
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	SO: Monthly List of Russian Accessions, Library of Congress, July	19 53 , finel.
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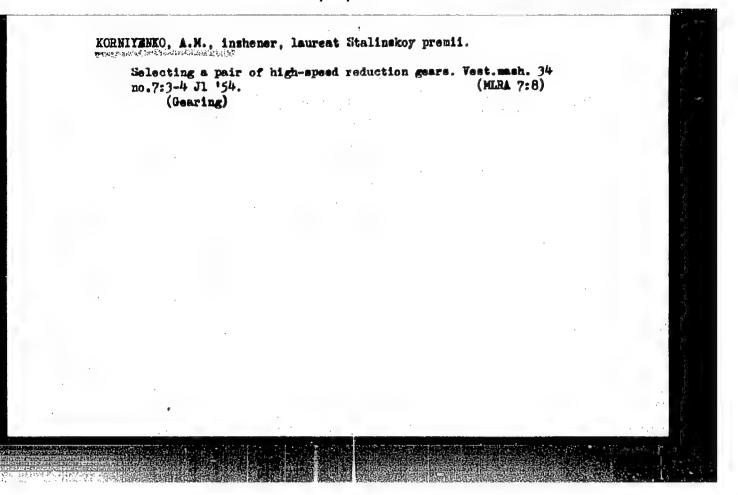
KURNIYENKO, A.M., inzhener.

Eliminating vibration from steam turbines. Energetik 1 no.3:8 dg 153.
(Mikh 6:8)
(Steam turbines)

- 1. KORNIYENKO, A. M., Eng.
- 2. USSR (600)
- 4. Steam Turbines
- 7. Adjusting cup-shaped control values of steam turbines, Elek. sta., 24, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.





KORNIYENKO, Afanasiy Mikhaylovich; DAVIDOVSKIY, O.N., redaktor; VORONIN,

[Manufacture, assembly, operation and repair of turbine reduction gear] Proizvodstvo, montash, ekspluatatsiia i remont turbinnykh reduktorov. Moskva, Gos.energ.izd-vo, 1955. 293 p. (MIRA 8:4) (Turbines) (Gearing)

KORNIYENKO, HITT.

AID P - 1528

Subject

USSR/Electricity

Card 1/1 Pub. 26 - 24/36

Author.

: Korniyenko, A. M., Eng.

Title

Prevention of breakdowns of turbine reduction gears

Periodical: Elek. sta., 3, 52-53, Mr 1955

Abstract

The author enumerates and analyses the causes of break-downs and describes methods of their prevention. One photograph, 4 drawings

Institution:

None

Submitted:

No date

CIA-RDP86-00513R000824720016-1" APPROVED FOR RELEASE: 06/14/2000

KORNIYENKO, A.M., inshener; EHOLODNYY, S.I., inshener.

Replacement of worn packing rings in the blading assembly of radial stages in Ljungström turbines. Elek.eta. 27 no.9:52-54 & *56.

(MLRA 9:11)

(Steam turbines--Maintenance and repair)

6. 5

Name: KORNIYENKO, Afanasiy Mikhaylovich

Title: Docent

Affiliation: Khar'kov State Ped Inst imeni/Skovoroda, Chair

of Physics (Course of Heat Engineering)

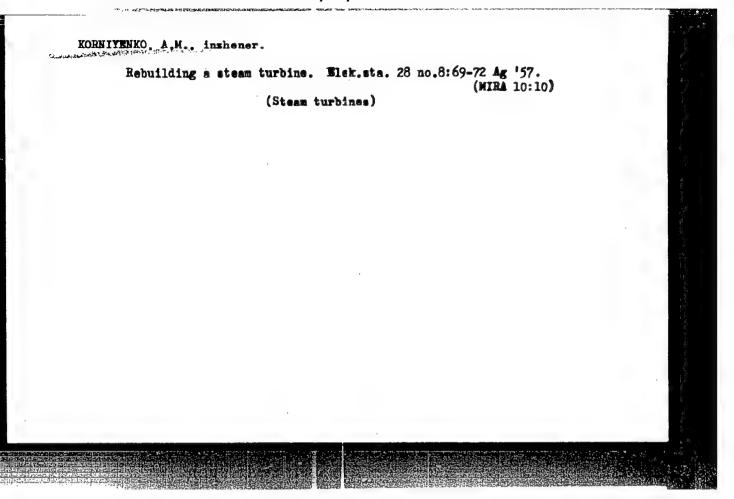
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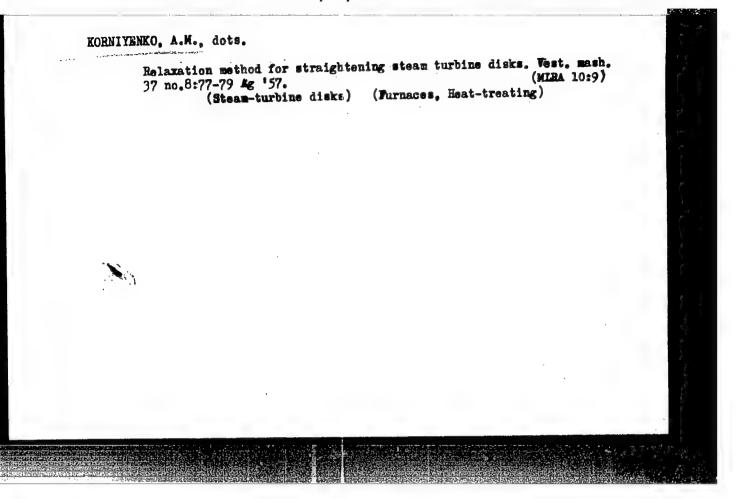
Source: BMVO 7/57

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KORNIYENKO, A.M., inshener.

APPROMEDIFOR RULE AGE: 06/14/2000 ines OFATROPS - 00513R000824720016 Energetik 5 no.8:17-19 Ag '57. (NIRA 10:10) (Steam turbines)





"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824720016-1

Raising the production quality and efficiency of toothed turbine reduction gears. Energomachinostroenie 5 no.2:35-39 F 159.

(Gearing) (Turbines)

85138

S/104/60/000/009/002/005

2209, 1063. 11474 24.1900

E073/E335

AUTHORS:

Korniyenko, A.M. and Kosman, A.S., Engineers

TITLE:

Ultrasonic Defectoscopy on Turbine Reductor Gears

PERIODICAL:

Elektricheskiye stantsii, 1960, No. 9,

pp. 24 - 26

TEXT: Use of various magnetic methods (for instance, magnetisation by an induced current from a closed core or magnetisation by a current pulse) as well as the luminescent method of defectoscopy did not yield positive results since all these methods are essentially suitable for detecting surface defects. Application of ultrasonic defectoscopes is satisfactory for the rim of the gear but it did not prove satisfactory for the teeth. This is attributed to the fact that the quantity of ultrasonic energy entering the gear teeth is too low to produce, even with maximum amplification, a vertical "peak" of the reflected signal on the oscillograph screen. Therefore, the authors applied for this purpose apparatus based on resonance. The instrument works on the following principle: ultrasonic energy of a variable frequency (3 to 6 Mc/s) is beamed into the material to be Card 1/4

85138 S/104/60/000/009/002/005 E073/E335

Ultrasonic Defectoscopy on Turbine Reductor Gears

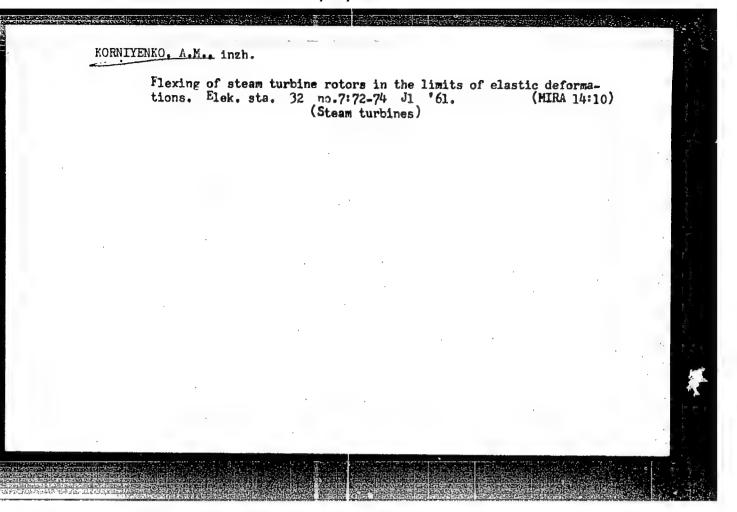
tested, using a piezoelectric transducer. At a certain frequency that corresponds to the frequency of the natural oscillations of the material (with respect to depth) being tested standing waves will form with nodes located at the surface; thereby, ultrasonic waves will be fully reflected from the surface. In this case the oscillator is tuned to be in resonance with the thickness of the material. At maximum reflection of the ultrasonic waves the piezoelectric transducer which is applied to the component will oscillate with an amplitude many times that of oscillations generated in it by a single generator, i.e. a maximum release of power occurs, as a result of which the piezoelectric transducer will be subject to sharp load changes. This, in turn, will affect the operation of the variable frequency oscillator in whose cathode pulses are being formed. These pulses are fed to the vertical plates of the oscillograph. The horizontal plates are fed with a voltage that is proportional to the variable frequency of the ultrasonic oscillations. As a result, pulses will be be used on the screen, the character of which will indicate the presence Card 2/4

APPROVED FOR RELEASE: 06/14/2009₁₀₄/35338DP86₅90512R900824720016

Ultrasonic Defectoscopy on Turbine Reductor Gears

or absence of a defect in the material. This instrument, $B_{L}-RP$ (V4-8R), is basically intended for measuring the thickness of metallic components in the case that access is available from one side only and is used for determining differences in wall thickness, detection of layering in tubes and rolled sheets, controlling the quality of brazing and glueing of metals. The search for defects is carried out in two stages, one for the teeth, using the above mentioned resonance defectoscope and one for the rims, using an ultrasonic defectoscope operating at a frequency of 2.5 Mc/s and a prismatic probe with a reflection angle $\alpha = 40^{\circ}$. Experimental use of the resonance defectoscope on specimens with artificial defects has shown that the sensitivity of the instrument is sufficiently high and defects in the root of the teeth with an equivalent area of 2 mm could be easily detected by this instrument. Practical experience has shown that reductlon gear pairs should be subjected to ultrasonic inspection after having been in operation for 50 000 to 60 000 hours.

Card 3/4



5/262/62/000/020/003/009 E194/E135

AUTHORS:

Korniyenko, A.M., and Kosman, A.S.

TITLE:

Protecting steam turbine blades against erosion

PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 20, 1962.

22-23, abstract 42.20.132. (Elektr. stantsii, no.6.

1962, 73-74)

TEXT: Blading of reaction turbines is more subject to erosion than that of impulse turbines. The cheapest and simplest way of protecting the blades is electric-spark hardening of the inlet edges proposed by TsNIITMASh, with which the hardening can be carried out directly on the rotor. A process is described which increases the service life of blades by a factor of 2-2.5.

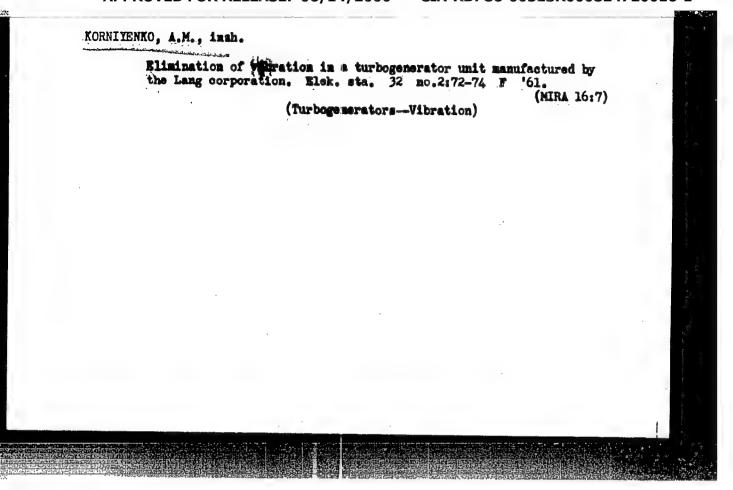
Abstractor's note: Complete translation.

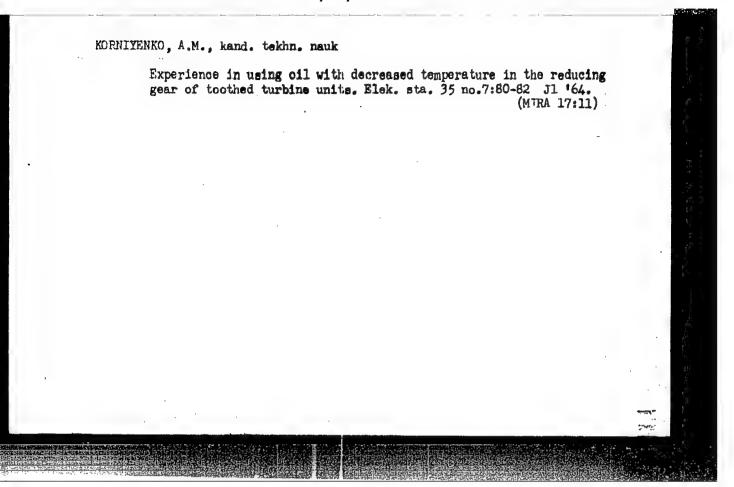
Card 1/1

ABRROYED FOR RELEASE: 06/14/2000, A.S., A-RDP86-00513R000824720016-

Check of the thickness of pipes in electric power plants. Elek. sta. 33 no.5:80-81 My 62.

(Pipes-Testing) (Ultrasonic waves-Industrial applications)





KORNIYENKO, A.M., kand. tekhn. nauk

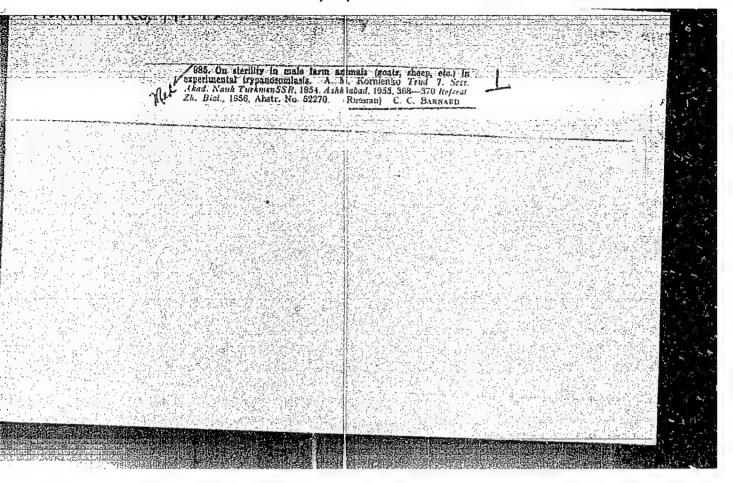
A case of the buckling of the rotor of a steam turbine and methods for preventing it. Fiek. sta 36 no.4:77-79 Ap '65.

(MIRA 18:6)

KORNIYENKO, A.M., kand. tekhn. nauk; HORISENKO, A.P., inzh. Measurement of the absolute vibration of turbine rotors using a noncontact method. Energ. i elektrotekh. prom. no.4:37-39 0-D '65. (MIRA 19:1)

KORNIYENKO, A.M.; SHTEL MAKHOV, M.S.; GEYLER, Z.Sh.; BERESNEV, V.A.;
KOTLIK, S.B.; GORFINSKIY, Kh.M.; ZEL DIN, Yu.R.; KURGIN, Yu.M.;
BELYAYEV, V.G.; ZAK, P.S.; ZAYTSEV, A.A.; LI, A.M.; SKVORTSOV, L.N.;
LUTTS, R.R.; KHVINGIYA, M.V.; NINOSHVILI, B.I.; SEMENCHENKO, D.I.;
SUKHANOV, V.B.

Soviet inventions in mechanical engineering. Vest.mashinostr. 45 no.11:87-88 N 165. (MIRA 18:12)



SERDYUK, G.B.; KORNIYENKO, A.N.

The welding arc in an alternating transverse magnetic field.

Avtom. svar. 16 no.10:8-14 0 '63. (MIRA 16:12)

1. Kiyevskiy politekhnicheskiy institut.

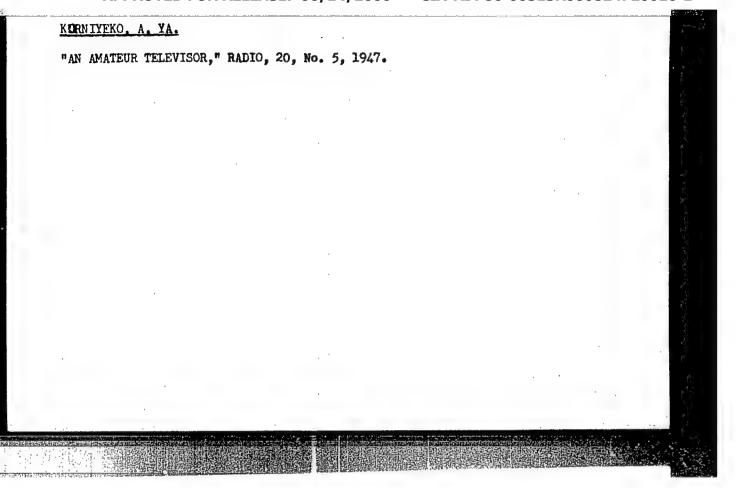
Magnetic control of the process of huild-up welding with flux and a tape electrode. Svar. proizv. no.4:12-14 Ap 164.

(MIRA 18:4)

1. Kiyevskiy politekhnicheskiy institut.

ALICHKIN, S.L.; AGRINSKIY, N.I.; ANDREYNV, G.F.; BAKUMENKO, G.D.;
VORONTSOV, S.M.; VOYSTRIKOV, I.V.; GRADYUSHKO, G.M.; ZYKOV, A.V.
IVANOVTSEV, P.V.; KINBURG, M.Ya.; KOVALEV, P.A.; KOZLOVSKIY, Ye.V.
KORNIYENKO, A.P.; KOLYAKOV, Ya.Ye.; LAKTIONOV, A.M.; LEVADNYY, B.A.
MEDVELEV, I.D.; NOVIKOV, N.V.; ONLOV, F.M.; OSTROVSKIY, A.A.;
ORTSEV, V.P.; PENIONZHKO, A.M.; POLOZ, D.D.; PRITULIN, P.I.;
PETUKHOVSKIY, A.A.; ROGALEV, G.T.; RYBAK, P.Ya.; SUTYAGIN, G.P.
TUKOV, R.A.; KHAVCHENKO, D.F.; CHERNETSKIY, T.I.; SHPAYER, N.M.
SHUSTOVSKIY, F.A.

Mikolai Vasil'evich Spesivtsev. Veterinariia 35 no.2:96 F '58.
(MIRA 11:2)
(Spesivtsev, Nikolai Vasil'evich, 1901-1957)

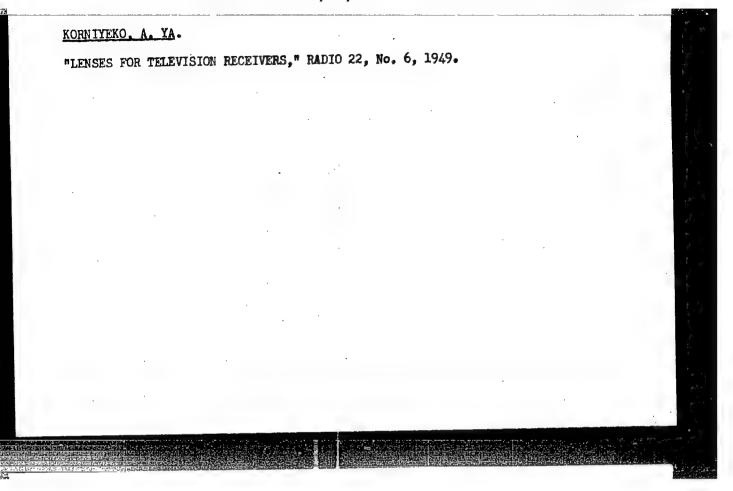


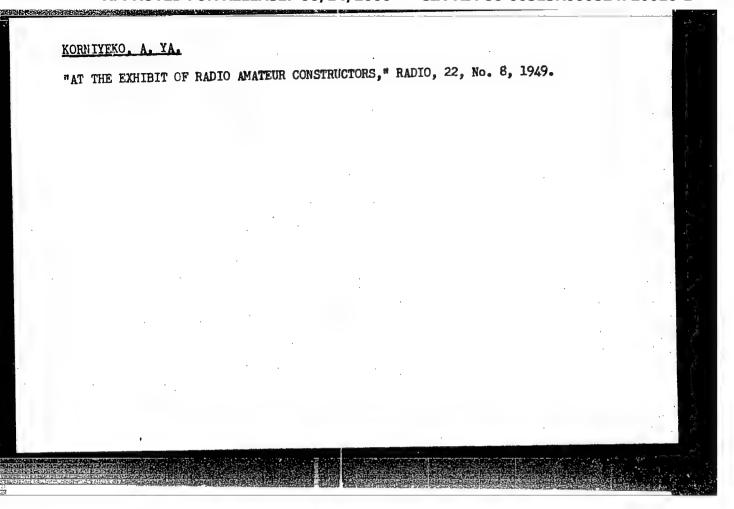
"Reception of FM Signals Utilized for Audio Accompaniment of Television Transmission," A. Korniyenko, 3 pp "Radio" No 10 Conclusion of article begun in "Radio" No 8, 1948. Discusses discriminator circuits, tuning FM receiver, and conclusions, with five diagrams. 1C 22/49792		USSR/Radio, Frequency Modulation	Oct 48	r	F.
Accompaniment of Television Transmission," A. Korniyenko, 3 pp "Radio" No 10 Conclusion of article begun in "Radio" No 8, 1948. Discusses discriminator circuits, tuning FM receiver, and conclusions, with five diagrams.		Television Transmission			· ·
Conclusion of article begun in "Radio" No 8, 1948. Discusses discriminator circuits, tuning FM receiver, and conclusions, with five diagrams.		Accompaniment of Television Transi		(<u>)</u>	
Discusses discriminator circuits, tuning FM receiver, and conclusions, with five diagrams.		"Radio" No 10		ı	
TC 55\#24.05		Discusses discriminator circuits,	tuning FM	:	
IC 22/49192					

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KORNIYENKO; A. YA.		PA 26/149TE6	
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Beviews A Set for A for receiption cent	Mateurs," which describe iving transmissions from t	s set suitable he Moscow televi-	
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*Wired Television Centers", Popular Radio Library, No. 69, Editor-in-Chief, Academician A. I. Berg. Gosenergoizdat, Moscow-Leningrad, 72 pp, 1950.

CIA-RDP86-00513R000824720016-1

KORNIYENKO, A Ya	N/5 744.721 . K81	
Lyubitel'skiy televisor LTK-9. (Amateur television set LTK-9) Moscow, Gosenergoisdat, 1951. 110 p. Diagrs., (Massovaya Radio Biblioteka).		
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KCRNIVETC, A Ya

Amateur-Fernsehgerat LTK-9: Leipzig, Fachbuchverlag, 1953. 89 p. illus., diagrs., tables. Translated from the Russina, "Lyubitel'skiy Televizor LTK-9, Moscow, 1951

N/5
744.21
.K8

KORNIYENKE, AYM.

108-7-3/13

AUTHOR TITLE

KORNIYENKO A.Ya.

On the Calculation of the Amplitude-Selector of a Television Receiver. (K raschetu amplitudnogo selektora televizionnogo priyemnika-Russian) Radiotekhnika, 1957, Vol 12, Nr 7, pp 15 - 23 (U.S.S.R.)

PERIODICAL

ABSTRACT

According to whether diodes or amplifier-valves are used the schemes can be devided into diode-selectors and selectors with amplifier-valves. In this paper the author gives the fundamental relations for the selection of the elements of the amplitude-selector scheme. He shows that in the most simple schemes, where the automatic displacement occurs at the expense of the signal current, the calculation of the resistance magnitude of the automatic displacement is reduced to a selection of the ratio &. between the resistance R of the dischargecircuit and the resistance $R_B + R_1$ of the charge-circuit $R=\delta(R_B+R_1)$

RB is the load resistance, Ri is the internal resistance of the diode. The author shows that for a scheme of the diode-amplitude-selector which is connected in series the coefficient δ is determined - = 38,4. The level of the separation of the by means of

To To synchronizing impulse does not depend on the coefficients of the image -signal form. T is the period of the series of synchronized impulses. eu is the amplitude of the image-signals. To is the duration of the synchronizing impuses. In a diode selector and a selector with amplifier valve which is connected in series & =

Card 1/2

CIA-RDP86-00513R0008247200

Korniyenko, A.

TELEVISION

"Amplitude Selector for Television Sets" by A. Korniyenko, Radio, No 1, January 1958, pp 37-40.

Description of the circuit used for separating the synchronizing pulses from the total television signal. The circuit in general is discussed, and some simpler realizations of the scheme are described in detail.

Card: 1/1

describes briefly how these requirements should be investigated in TV sets. Then he describes an amplitude selector with a series automatic mixing circuit, which might be used not only for a diode selector, but also for a selector with

APPROVED FIGHT RELEASE: 06/14/2000 in ag GLA-RDR86-00513R000824720016which may be used in any TV set. Another amplitude selector

Card 1/2

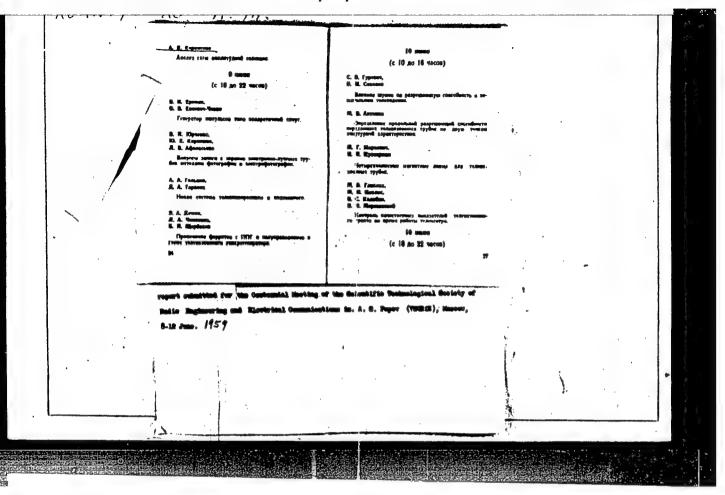
New Amplitude-Selector Circuits

107-58-5-19/32

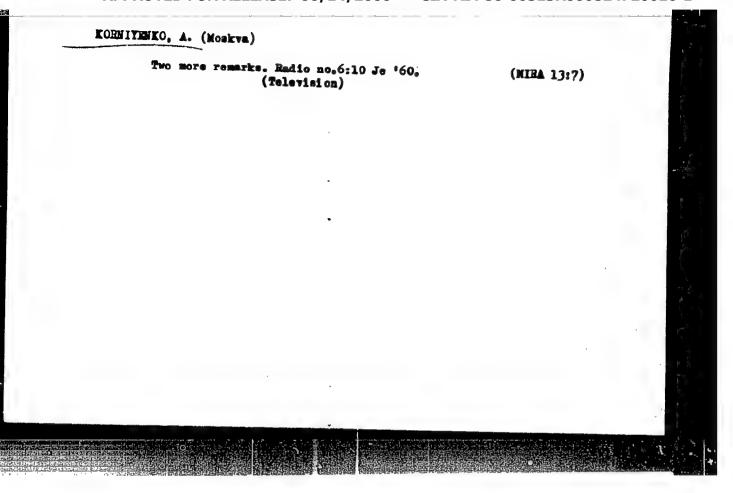
with a variable time constant (Author's patent applications Nr 58106/26 and Nr 58324/26) is shown in figures 4-7. This type is free of the disadvantages found in amplitude selectors with small time constants. Practically it does not require additional tuning and the selection of its component parts is not critical. This selector type will work on tubes "6N1P", "6N8S", or better, "6Zh1P". There are 7 figures.

AVAILABLE: Library of Congress

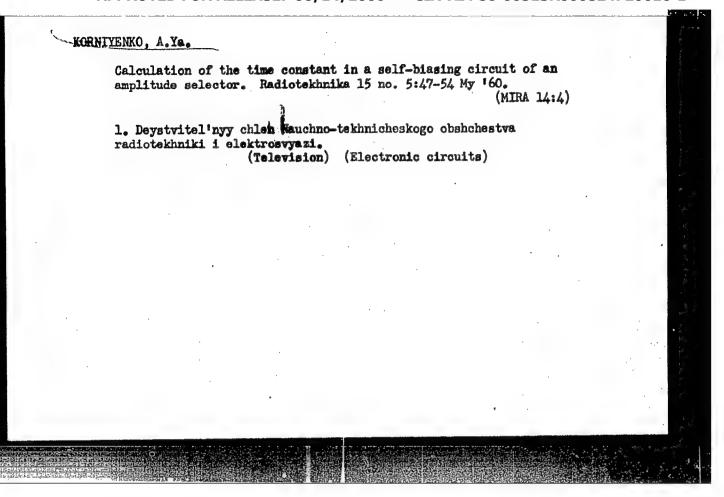
Card 2/2



CIA-RDP86-00513R000824720016-1



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CIA-RDP86-00513R000824720016-1

Analysis of amplitude selecting networks. Radiotekhnika 15 no.12:25-34 D .60. (MIRA 14:9)

1. Deystvitel nyy chlen Nauchro-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova.

(Television--Receivers and reception)

(Pulse circuits)

L 51372-65 EEC(b)-2/EEC(k)-2/EMA(h)/EWF(1)/T Pm-L/Pz-6/Peb LJF(c) GS UR/0000/64/000/000/0554/0562 ACCESSION NR: AT5011629 AUTHOR: Kornlyenko, A. Ya. TITLE: Loading capacity of ferrite-transistor cells SOURCE: Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki, telemekhaniki, izmeritel'noy i vychialitel'noy tekhniki. Lvov, 1962. Magnitnyye elementy avtomatiki, telemekhaniki, izmeritel'noy i vychislitel'noy tekhniki (Magnetic elements of automatic control, remote control, measurement and computer engineering); trudy soveshchaniya. Kiev, Nankova dumka, 1964, 554-562 TOPIC TAGS: ferrite transistor cell, cell loading capacity, core remagnetization output pulse duration, supply voltage utilization, information registration The emerical load capacity of ferritaetransistor colls is determined the potential by the reserved to had laracity must, naturally on the La maggad 1 m m or notice of the param-That the conditions the same

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Conference on the use of hydropenics in agriculture. Fixiot.rast.
12 nc.1s188-190 Jan 165.

(MIRA 18:3)

NESTERENKO, V.V., inzh.; KORNIYENKO, D.D., inzh.; AL'BRUT, B.I., inzh.

Large-scale blasting in the sublevel caving system with breaking of the ore through deep holes at the Dzerzhinskii mine. Met. i gornorud. prom. no.3:46-50 My-Je '62. (MIRA 15:9) (Krivoy Rog Basin-livon mines and mining) (Blasting)

KORNIYENKO, Daniil Iosifovich, general-mayor,; ZUBKOV, I.I., general-mayor, nauchqyy red.; KAPLUNOV, A.S., red.; BERLOV, A.P., tekhn. red.

[Role of the morale factor in modern war] O roli moral'nogo faktora v sovremennoi voins. Moskva, Izč.vo "Znanis," 1958. 47 p.

(Vseaciuznos obahcheatvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 1, no. 28).

(Morale)

L 7813-66 ENT(d)/ENT(1)/T/ENA(h) IJP(c)

ACC NR: AP5027622

SOURCE CODE: UR/0109/65/010/011/1992/1999

AUTHOR: Nikol'skiy, V. V.; Sukhov, V. G.; Korniyenko, D. I.; Orlov, V. P.

ORG: none

TITLE: Calculation of a rectangular waveguide filled with ferrite or ferrite and dielectric and magnetized longitudinally

SOURCE: Radiotekhnika i elektronika, v. 10, no. 11, 1965, 1992-1999

TOPIC TAGS: rectangular waveguide, ferrite layer waveguide, dielectric layer waveguide

ABSTRACT: The method of eigen-functions used by the authors for designing rectangular waveguides containing ferrite rods (Rad. i elektronika, 1964, 9, 8, 1345, and 1965, 10, 4, 618) is extended over these configurations: two ferrite strips adjoining the wider walls of the waveguide; same, adjoining the narrower

Card 1/2

UDC: 621.372.853.2.001.24

L 7813-66

ACC NR: AP5027622

walls; ferrite rod in a waveguide filled with a dielectric of $\varepsilon \neq 1$; hollow ferrite rod; dielectric strip between two ferrite strips; ferrite strip between two dielectric strips. Curves of the propagation constant, losses, etc., for quasi-TE₀₁ and quasi-TE₁₀ modes calculated on a digital computer are presented. The mathematical interpretation of the electric and magnetic fields in a ferrite-containing waveguide is discussed. Orig. art. has: 8 figures, 3 formulas, and 4 tables.

SUB CODE: 09 / SUBM DATE: 20Jul64 / ORIG REF: 003

Card 2/2

KONSIYENKO, Denil Losifovich; SOLOV'TEV, N.I., red.;

KONSIYENKO, Denil Losifovich; SOLOV'TEV, N.I., red.;

TARASOV, I.A., red.;

Cour country's news] Flot mashel rodiny. Moskva, Voen.ixd-vo
M-va obor. SSSR, 1957. 453 p. (MIRA 11:2)

(Russis--Esy--History)

TARASOVA, L.P., inzh.; KALASHNIKOV, A.G., inzh.; DOLINENKO, O.V., inzh.;

NAZARENKO, Ye.T., inzh.; BUL'SMIY, M.T., inzh. [deceased];

SVIRIDENKO, F.F., inzh.; Prinimali uchastiye: LAPINA, A.M., inzh.;

KORNITENKO, D.I., inzh.

Nonmetallic inclusions in rail steel. Stal' 23 no.8:738-740

Ag '63. (Railroads-Rails) (Steel--Inclusions)

KORNIENKO, D. I.

Author: Kornionko. D. I.

Title: The Son Flect of the Soviet Socialistic Republic, (Morskoi flot sovetskoi sotsialisticheskoi derzhavy.) 215 p.

City: Moscow

Publisher:

Armed Forces of USSR. accodescided:

Dato: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 12, March, 1951

ACCESSION NR: AP4043668

\$/0109/64/009/008/1345/1356

AUTHOR: Nikol'skiy, V. V.; Sukhov, V. G.; Korniyenko, D. I.; Orlov, V. P.

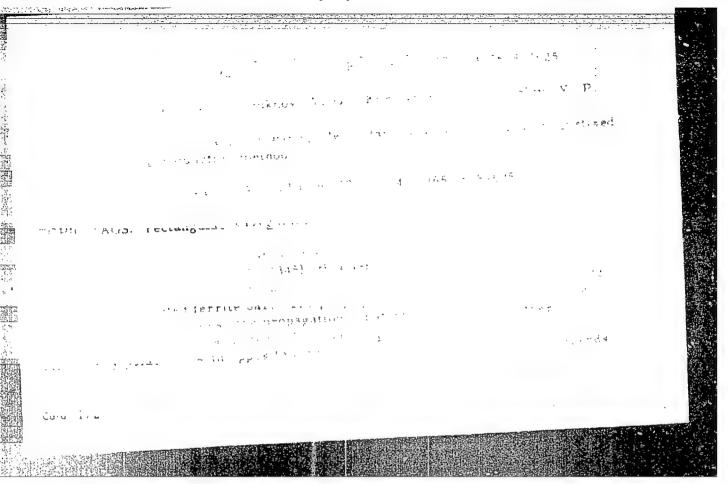
TITLE: Calculation of a rectangular waveguide containing a longitudinally-magnetized ferrite by the eigenfunction method

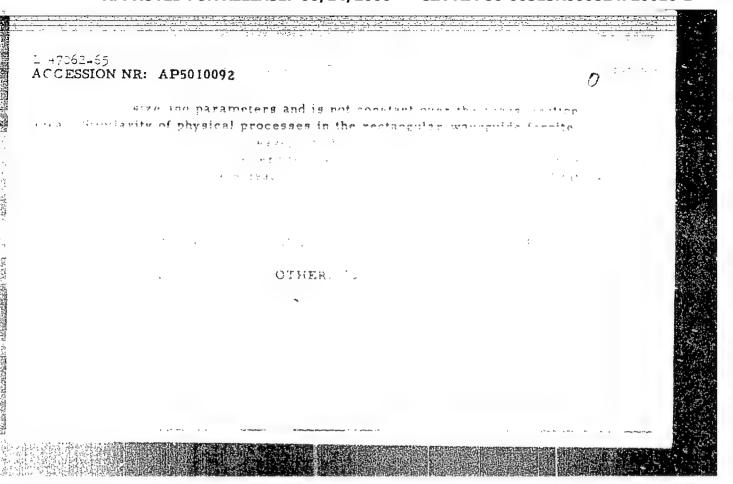
SOURCE: Radiotekhnika i elektronika, v. 9, no. 8, 1964, 1345-1356

TOPIC TAGS: waveguide, ferrite, longitudinally magnetized ferrite, ferrite containing waveguide

ABSTRACT: Based on the Galerkin-Ritz theory, a method for calculating the propagation constants of and fields in a rectangular waveguide partially filled with a longitudinally-magnetized ferrite is developed. The problem is solved as a boundary problem for the waveguide cross-section; Maxwell's equations are used. Phase shift and attenuation are calculated for a wide range of ferrite characteristics, fsizes and configurations of the system. Programing time and

Card 1/2





KORNIYENKO, E.A.

Changes in the caliber of ratical vassels in normal and abnormal menstrual cycle. Akush. i gin. 40 no.3:92.94 My-Je 64.

1. Kafedra akusherstva i ginekologii pedagogicheskogo fakuliteta (zāv. - prof. A.A.Lebedev) II Moskovskogo meditsinskogo instituta imeni Pirogova.

KORNITENKO, E.A.

Vascular rhythm in the intremenstrual period during normal and pathological menstrual function. Sov. med. 28 no.6: 49-52 Je 165. (MIRA 18:8)

l. Kafedra akusherstva i ginekologii (zav.- prof. A.A. Lebedev) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

. S.; KAPITONOV, 1. M.; KORNIYENKO, E. I.; SHEVCHENKO, V. G.; YUR'YEV, ... vestigations of the Reaction Ca $^{i_{ij}}(\gamma,p)$."

report submitted for All-Union Conf on Nuclear Spectroscopy, Toilisi, 14-22 Feb 64.

NIIYAF, MGU (Sci Res Inst Nuclear Physics, Moscow State Univ)

ISHKHANOV, B.S.; KORNIYENKO, E.N.; SOROKIN, Yu.I.; SHEVCHENKO, V.G.; YUR'YEV, B.A.

Gross section of the Rh¹⁰³(7; p) reaction. Zhur. eksp. i teor. fiz. 45 no.2:38-42 Ag '63. (MIRA 16:9)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.

(Nuclear reactions)

ACCESSION NR: AP4031181

5/0056/64/046/004/1484/1486

AUTHOR: Ishkhanov, B. S.; Kapitonov, I. H.; Korniyenko, E. N.; Shavchanko, V. G.; Yur'yev, B. A.

TITLE: Photoprotons from calcium

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1484-1486

TOPIC TAGS: photoproton, angular distribution, energy distribution, photoproton yield curve, integrated cross section, shell model, sum rule

ABSTRACT: To eliminate some contradictions which still exist between the calculations of the photodisintegration of Ca^{+0} according to the many-particle shell model and the experimental data, the authors measured the angular and energy distribution of photoprotons from Ca^{+0} for a maximum γ -ray energy 22 MeV, and also obtained cross sections for the reactions $Ca^{+0}(\gamma, p)$. The measurements were made on the 35 MeV betatron of NIIYaF MGU, the energy distributions being obtained with emulsions and the photoproton yield curves with scintillation spectrometers. The position of the peak in the cross section for the (γ, p) reaction agrees with the theoretical calculation Balashov, Shevchenko, and Yudin (Nucl. Phys. v. 27, 323, 1961), and the integrated cross section agrees with both the sum-rule calculations and

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AUTHORS:

Yurin, V. A., Baberkin, A. S., Korniyenko, E. N.

Gavrilova, I. V.

TITLE:

The Action of γ-Radiation Upon the Ferroelectric Properties

of Triglycine Sulfate Crystals

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 11, pp. 1334 - 1336

TEXT: The present paper is a reproduction of a lecture delivered on the 3rd Conference on Ferroelectricity, which took place in Moscow from January 25 to 30, 1960. The authors investigated the influences exerted by γ-radiation upon the properties of triglycine sulfate (TGS), taking special account of the stabilization of the single-domain state. TGS Y-cuts of different shape and size were investigated, upon which silver electrodes had been sputtered in vacuo. From the Co⁶⁰ source the sample received a dose rate of 235 r/sec. From an observation of the hysteresis loops and their changes due to γ-radiation above and below Curie point, with and without external (variable or constant) electric field, the Card 1/4

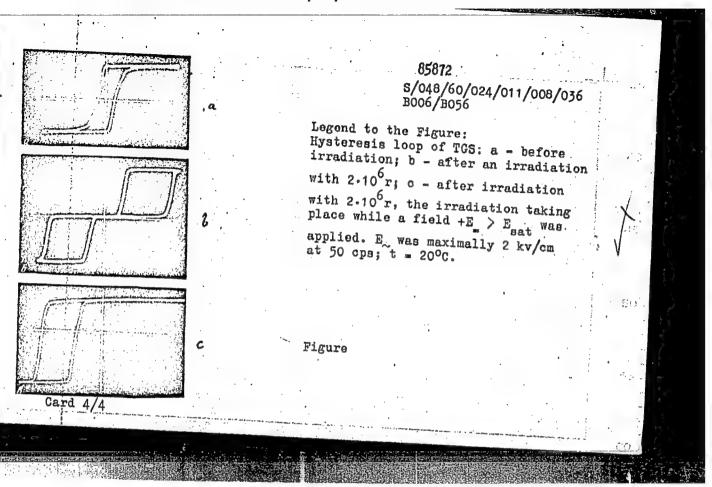
The Action of γ -Radiation Upon the Ferroelectric Properties of Triglycine Sulfate Crystals

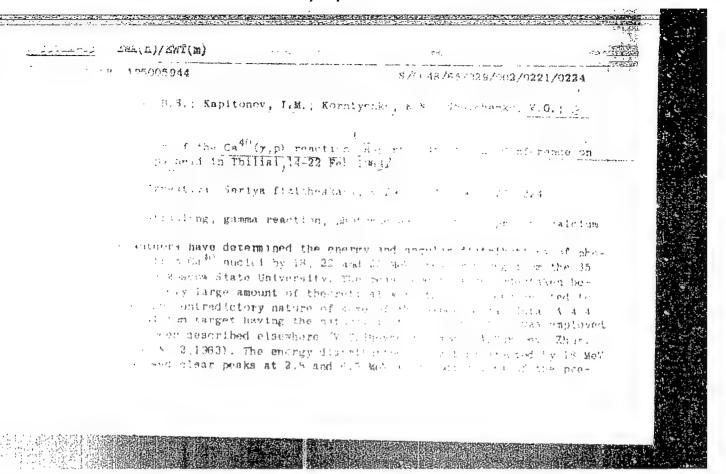
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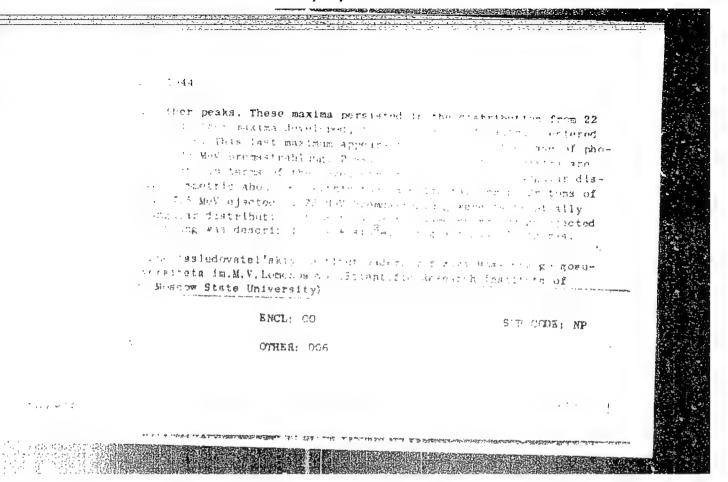
following conclusions could be drawn: 1) Under the influence of gamma irradiation either stable polydomain states are formed in TGS crystals (to which the double hysteresis corresponds), or single stable domain states (to which the displaced hysteresis corresponds); this means that that form of domain structure is "solidified", which existed during irradiation and during holding time after irradiation at a temperature below Curie point. 2) The stability of domain structures is explained by the formation of "internal displacement fields" in the crystal, where in polydomain samples the signs of the "internal displacements" in neighboring antiparallel domains are reversed, and in single-domain samples these signs are then uniform in the whole sample. These displacements are not formed immediately during irradiation, but in the course of relaxation processes, above all during diffusion processes, due to which the radiolysis products in the lattice are deposited at the places of minimum energy. These places are interrelated with the existence of a spontaneous polarization in the crystal (as well as with their direction). This conception corresponds in ferromagnetic materials to an oriented ordering, which causes a uniaxial magnetic anisotropy, whose

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One hundred centners of meat and four hundred centners of milk. Sov.profectury 6 no. 11:35-37 S '58. (MIRA 11:10) 1. Predsedatel' rabochego komiteta sovkhose "Metallist," Stalinskoy oblasti. (Stalino Province--Stock and stockbreeding)

KORHIYENKO, G. G.

"Investigation of the Phase Structure of Portland Cement Clinker and High Alumina Slag by Chemical Analysis." Cand Tech Sci, Technical Administration, All Union Sci Res Inst of Glass, Min Construction Materials Industry USSR, Moscow, 1955. (KL, No 13, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

15(6)

SOV/101-59-2-6/13

AUTHORS:

Royak, S.M., Nagerova, E.I. and Korniyenko, G.G.

TITLE:

Investigation of the Phase Formation of Aluminous Cement

by Chemical Methods

PERIODICAL:

Tsement, 1959, Nr 2, pp 22-24 (USSR)

ABSTRACT:

The authors state that the best properties of aluminous cement are its strength at the initial periods of hardening, and radiation of heat. These features depend upon the mineralogical composition of the high-consistency aluminous slag. Such cement is obtainable by means of smelting or - caking. The mineralogical composition of cement is usually determined by means of microscopical analysis. But, with cement produced by the caking method, such examination meets with some difficulties, caused by the fine-crystalline structure of the calcinated material. Consequently, a chemical method must be used for the

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determination of basic components of aluminous cement. The bicalcium silicate can be determined, in accordance

SOV/101-59-2-6/13

Investigation of the Phase Formation of Aluminous Cement by Chemical Methods

with a method proposed by E.I. Nagerova by using a 5% aqueous solution of boric acid. The practical result was that calcium aluminates dissolve in the 2 - 5% solution of sodium carbonate in about 1 hour time at a temperature of 70 - 90°. The authors quote experiments made at the Pashiyskiy tsementnyy zavod (Pashiya Cement Plant) with 20 samples of aluminous cement of various mineralogic composition. Summarizing, the authors state that chemical methods of determination of the content of bicalcium silicate, helenite and even calcium aluminates are more conclusive than the microscopic methods. However, a joint use of the chemical and microscopic methods will insure an exact characteristic of the phase formation of aluminous cement. This formation may be determined by the usual methods of silicate analysis, with the application of suitable reagents. There are 2 tables.

Card 2/2

KORNIYENKO, G.G., kand.tekhn.nauk; SOMINSKIY, D.S., kand.khir.nauk

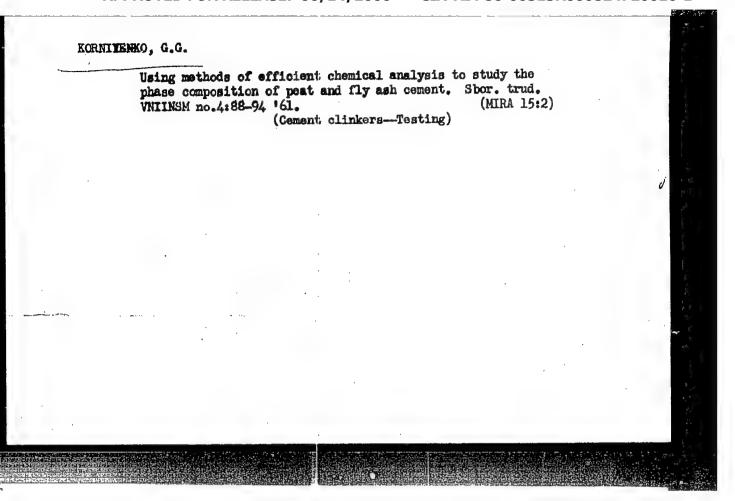
Interaction of magnesium exide and silica sand under hardening conditions of lime-sand binders. Stroi.nat. 5 no.8:32-34 Ag '59.

(Sand) (Lime)

KORNIYERO, G.G., kand.tekhn.nauk; SOMINSKIY, D.S., kand.khim.nauk

Studying the hardening of peat-ash binders. Stroi. mat. 6 no.11;3738 N '60. (Binding materials)

(Binding materials)



KORNIYENKO, G.I.; PAVLOV, N.N., kand.tekhn.nauk

Increasing the reliability of a standard flip-flop with junction translators by means of a buffer stage.

Avtom, i prib. no.3:27-31 Jl-S '62. (MIRA 16:2)

1. Vychislitel'nyy tsentr AN UkrSSR.
(Electronic digital computers)

ACC NR: A116016004

Honograph

UR/

- Babenko, Lyudmila Petrovna; Dovgopolaya, Lyudmila Ivanova; Korniyenko, Galina Mikhaylovna; YUshchenko, YEkaterina Logvinovna
- Automatic programming system for the M-20 computer; translator from the address language. A manual (Sistema avtomaticheskogo programmirovaniya dlya mashiny H-20; translyator s adresnogo yazyka. Spravochnoye rukovodstvo) Kiev, Naukova dumka, 1965. 153 p. illus. biblio. (At head of title: Akademiya nauk Ukrainskoy SSR) 7750 copies printed.
- TOPIC TAGS: computer language, computer programming, algorithmic language, machine language
- PURPOSE AND COVERAGE: This book is intended for persons who use computers in their work or are engaged in the designing of automatic programming systems. The algorithmic address language used for describing computational, and information and logical processes, well as the respective programming program developed at the Institute of Cybernetics, AM UkrSSR for the Soviet H-20 computer, are described in detail. Methods of programming a program and examples of programming are reviewed. The automated programming system developed by the authors makes it possible to increase the calculation rate on the H-20 computer by a factor of 10 to 15.

ACC NR AM6016004

APPROVED FOR RELEASE: 06/14/2000 TABLE OF CONTENTS: CIA-RDP86-00513R000824720016-

Foreword -- 3

- Input language of the programming program (PP-M)

 1. Description of the style of PP-M input address language 2. Distribution of working program memory -- 14
- 3. Special features of input language address formulas -- 17

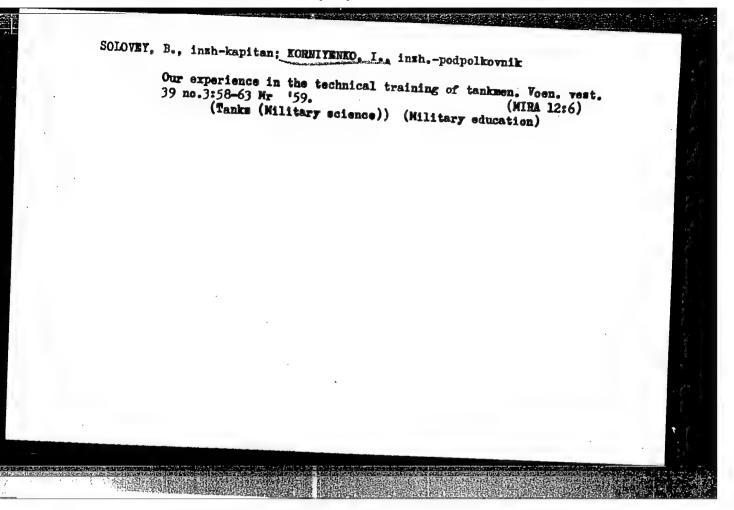
Ch. II. The PP-M programmer

- 1. General information -- 21
- Functional operation of the PP-H -- 22
 Description of automatic coding unit algorithms -- 24
- Description of programming unit algorithms -- 27
- 5. PP-H in computer codes -- 40
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 - 1. Calculation of a production plan based on a given yield program -- 86
 - 2. Algorithm for the calculation of simple twin-numbers -- 91

3. Problem of assembling squares -- 94

Appendices

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27.2000 (1080,1331)

S/107/61/000/002/002/003 E073/E535

AUTHORS:

Berestovskiy, G., Engineer and Korniyenko, I., Candidate of Biological Sciences

TITLE:

Bioelectricity and the Cell

PERIODICAL: Radio, 1961, No.2, pp.17-20

In addition to contacts between adjacent nerve cells, the nerves are also interconnected by means of axons. These consist of a protoplasma core with a membrane which, on the outside, is covered by myeline casing which has good insulating properties. Some axons do not have a myeline casing. In axons with myeline casings the speed of transmission is about 90 m/sec. without a myeline casing the speed is 7 to 15 m/sec. In the ones with cells have to be carried out with micro-electrodes (metal or Experiments glass). Metal electrodes have a point diameter of 1 μ and a relatively low resistance (10 to 10 ohms). Glass electro pipettes filled with electrolyte, can be produced with end point diameters of 0.1 µ. However, the resistance of these is very great, In the unexcited state a constant potential difference exists between the internal and the external regions and the membrane seems to play the same role as insulating material in

Bioelectricity and the Cell

S/107/61/000/002/002/003 E073/E535

a condenser. The position appears to be similar to that in a P-N junction of semiconductor diodes. Experiments on the activity of nerve fibres are made by means of artificial excitation with squaretopped pulses of a few msec duration. Fig. 2 shows a sketch of a set-up for studying the electrical phenomena in an axon in the excited state. The figure also contains an oscillogram of a pulse which propagates along the fibre and is received by a micro-electrode placed inside the cell. The pulse amplitude is 100 to 120 mV, its duration between one and several msec. The parameters of the pulse do not depend on the excitation force and remain relatively constant during their passage through the axon, i.e. they propagate without attenuation. This is the case only if the excitation current exceeds the threshold value, which is such that induced e.m.f. from adjacent excited fibres (0.1 to 1 mV) does not lead to erroneous excitation of a given axon (high noise suppression). As a rough approximation, the axon communication line can be imagined as a loop of multi-vibrators interconnected by means of low frequency RC filters. If one or two axon links do not respond, the communication is not interrupted, since the amplitude of the actuating pulse is Card 2/9

Bioelectricity and the Cell

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5 to 6 times higher than the excitation threshold, so that even if the signal is received by the third link with considerable attenuation it will still be strong enough to excite it. The transmission of information to differing organs of the body is effected by changing the frequency of the pulse sequence along the appropriate axons and also by changing the number of active axons. are similarly controlled; excitation pulses produce contraction of the muscles, the intensity of which increases with increasing pulse frequency. If the axon is in the excited state, the resistance of the membrane is sharply reduced along an ion flow; the potential difference on the membrane drops and even changes sign. that, the particular part of the fibre reverts to the initial state. For recording bioelectric signals tapped off by means of micro-electrodes, high gain (10⁵ to 10⁶) amplifiers with high input resistance (109 to 1011 ohm) and a wide passband are required. is difficult to produce high resistance input stages. However, this problem can be easily solved by circuits designed for tapping off d.c. potentials. Either electrometric tubes or other types of ordinary tubes are used with operating regimes such as to obtain

Bioelectricity and the Cell

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minimum grid currents (10^{-11} to 10^{-12} A). To reduce input capacity, cathode repeaters are used and to reduce the capacitance to ground of the grid connection the tube, together with the grid input lead, are screened and the screen is connected to the cathode. However, even in this case a capacitance of the order of 2 to 5 pF will remain. The circuit, Fig. 3a, enables obtaining an input capacitance of 0.1 pF and a input resistance of 10^{10} ohms. If it is not possible to ground one of the micro-electrodes, bipolar leads have to be used for tapping off the potentials. In this case, the input stage, as well as the amplifier, have to be of the balancedifferential type, a two-stage amplifier with a high resistance in the cathode circuits of both tubes (Fig. 3b). For counter phase input signals, the gain in a stage can be 100 to 1000 times as large as synphase input signals. For exciting cells, stimulator oscillators are used, which produce square-topped voltage pulses of durations of tens of usec to several sec with various pulse The output of the stimulator must be insulated from the ground otherwise it would transmitted by the object and recorded on the oscillograph. The problem can be solved by transmitting Card 4/9

Bioelectricity and the Cell

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the pulse through a high frequency transformer, using a 1 to 3 Mc/s carrier frequency and then to obtain the rectangular stimulator pulse from the secondary circuit by using a detector circuit. Such a transformer is usually made without an iron core, which has the disadvantage of very high leakage. Transformers with ferrite cores have a low leakage but the capacitance between the windings is increased, which is undesirable. Yu. M. Lebedev-Krasin (Radiotekhnika, 1957, No.9) described a special transformer in which each of the windings is wound on its own toroidal ferrite core and the coupling between the magnetic fluxes of the cores is effected by means of a short-circuited turn in the form of two brass cups bolted An electrostatic screen, a brass disc, is placed between the two cores. The mass of the transformer is grounded. transformer has a negligible transfer capacitance and is suitable for operation in the frequency range of 1 kc/s to 100 Mc/s. measuring the electric parameters of nerve and muscle fibres, electronic circuits are used, particularly a.c. (10 to 100 kc/s) bridges. The high frequencies are chosen because at such frequencies even higher voltages will not influence the state of the object under investigation. A new field of biological investigation is

Bioelectricity and the Cell

S/107/61/000/002/002/003 E073/E535

molecular biology. Radio spectroscopy investigations (Laboratoriya fizicheskoy khimii biopolimerov AN SSSR, Laboratory of Physical Chemistry of Biopolymers, AS, USSR) of the physical properties of nucleic acids, which are the carriers of hereditary information in the cells, revealed anomalous magnetic properties which are similar to the antiferromagnetic properties of substances and the associated anomalies in the electrical properties are similar to those encountered in ferroelectrics. In view of the fact that ferroelectrics are being used for memories in computers, it is easy to understand the major interest of scientists in these effects of biopolymers in conjunction with problems of hereditary and study of the mechanism of memory in living beings. There are 4 figures.

Card 6/9

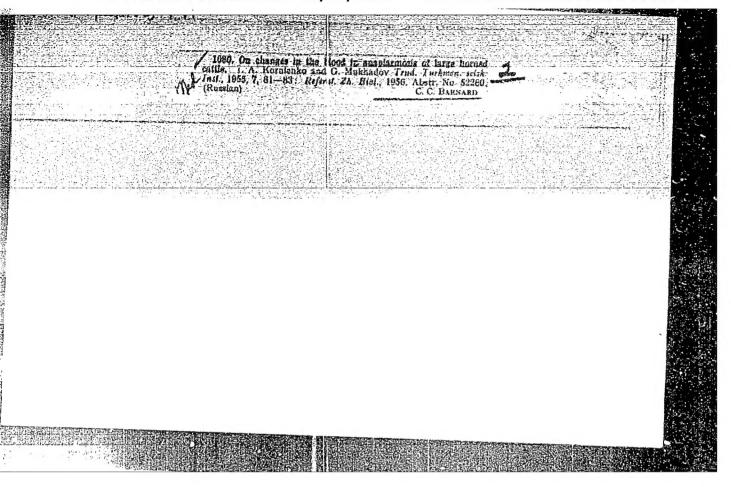
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KONTELLE, I.A.

"The Motor Function of the Russon and Small Intestines of Sheep During the Action of Various Stimulants Under Mornal and Experiment 1 Paid elected Smalltlens." Cand Diel Smi, Nescou Veterimary Acad, Min Higher Education USBR, Morcow, 1955. (RL, No 13, Apr 55)

30: Sur. H. 704, 2 Nov 55 - Survey of Scientific and Technical Discertations Defended at USER Higher Educational Institutions (16).



KORNIYENKO, I.A.

Mechanism of protracted collapse in bacterial intoxication at an early stage of development. Biul.eksp.biol. i med. 47 no.6:23-28 Je 59. (MIRA 12:8)

1. Iz laboratorii vozrastnoy fiziologii i patologii (zav. - prof. I.A.Arshavskiy) Instituta normal noy i patologicheskoy fiziologii (dir. - deystvitel nyy chlen AMN SSSR prof. V. N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena deystvitel nym chlenom AMN SSSR V. N. Chernigovskim.

Chernigovskim.

(Micrococcus Pyogenes,
toxin causing protracted collapse in young animals (Rus))

(SHIGHIAA.

Same)
(COLLAPSE, expera
caused by shigella & Micrococcus pyogenes toxins in
vonng animals (Rus))

GOKUBLIT, I.I.; KORNIYENKO, I.A.

Demarcational difference in potentials as a characteric of the changing condition of polarization of skeletal muscles in various age periods. Biul. eksp. biol. i med. 49 no.2:26-31 F '60.

l. Iz laboratorii vozrastnoy fiziologii i patologii (zav. prof. I.A.Arshavskiy) Instituta normal'noy i patologicheskoy
fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N.Chernigovskiy
AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR
(MUSCLE) (AGING)

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TITIE: The influence of heavy water on the vital stainability and thermal stability of skeletal frog muscles

SOURCE: Biofizika, v. 9, no. 3, 1964, 315-320

TOPIC TAGS: heavy water, heavy water induced disturbance, contractability inhibition, vital stain, vital stainability, deuterium, intracellular structure stability, thermal contractive resistance, protoplasmic colloid, actomyosin, cell wall lipid

ARSTRACT: In a preliminary study of functional disturbances caused by D₂O the authors had found increased excitability of the frog sartorius muscle and inhibition of contractability. This pointed towards paranecrosis of the protoplasm which had earlier been shown to be accompanied by increased sorption of vital dyes. The stainability was used for determining the cytoplasmic state in the isolated frog sartorius. Neutral red in Ringer solution containing 50 or 95% D₂O served as the dye for the right muscle, the left serving as control. It was then extracted and the amount determined colorimetrically. Results are tabulated for controls and

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